

ASTATAL™ F20

Acetal (POM) Homopolymer
Marplex Australia Pty. Ltd.

Message:

ASTATAL™ F2001 / F2002 / F2003 are the standard medium viscosity (medium melt flow) grades in the ASTATAL™ Polyacetal range and are suited to general purpose injection moulding applications. Offering an exceptional combination of processability, rigidity, frictional wear, heat and chemical resistance, typical applications include mechanical clips, lock linkages and automotive petrol caps.

Note: [No mould release = 01] / [Standard mould release = 02] / [Low mould deposit = 03].

Note: The letters "UV" or "W" indicate UV stabilisation has been added [ie: ASTATAL™ F2003W].

General Information			
Features	General Purpose		
	Good Chemical Resistance		
	Good Processability		
	Good Wear Resistance		
	Medium Flow		
	Medium Heat Resistance		
	Medium Rigidity		
	Medium Viscosity		
Uses	Automotive Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	9.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	2.0	%	ASTM D955
Water Absorption (24 hr)	0.22	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	80		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	61.3	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	60	%	ASTM D638
Flexural Modulus ³ (6.40 mm)	2600	MPa	ASTM D790
Flexural Strength ⁴ (6.40 mm)	89.7	MPa	ASTM D790
Shear Strength (2.00 mm)	54.9	MPa	ASTM D732
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	64	J/m	ASTM D256
Tensile Impact Strength (1.60 mm)	120	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.40 mm	158	°C	

1.8 MPa, Unannealed, 6.40 mm	110	°C	
Melting Temperature	165	°C	DSC
CLTE - Flow	1.3E-4	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	2.0 to 3.0	hr	
Rear Temperature	165 to 185	°C	
Middle Temperature	175 to 195	°C	
Front Temperature	185 to 205	°C	
Processing (Melt) Temp	190 to 210	°C	
Mold Temperature	50.0 to 90.0	°C	
Injection Pressure	60.0 to 130	MPa	
Injection Rate	Moderate-Fast		
Back Pressure	0.100 to 0.500	MPa	
Screw Speed	40 to 60	rpm	
Clamp Tonnage	3.0 to 5.0	kN/cm ²	
NOTE			
1.	20 mm/min		
2.	20 mm/min		
3.	2.8 mm/min		
4.	2.8 mm/min		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT